

FORCED VIBRATIONS OF A SYSTEM WITH ONE DEGREE OF
FREEDOM IN THE PRESENCE OF DRY FRICTION AND WITH
AN OPERATING ARBITRARY EXCITING FORCE. VOL IV.
PROBLEMS OF DYNAMICS AND DYNAMIC STRENGTH.

RUSSIAN, BK, VYNUZHDENNYE KOLEBANIA SISTEMY S
ODNOY STEPEN'U SVOBODY PRI NALICHII SUKHOGO TRENIA
I PRI PROIZVOL'NOI VOZMUSHCHAYUSHCHEY SILE.
SBORNIK STATEY. VOL IV, 1956, PP 95-121.

AEC
SCL-T-332

SCI - ENGR
JUN 62

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Making of Steel for Shaped Castings, 5 pp.

RUSSIAN, bk, Vyplavka Stali Dlya Fasonnogo
Lit'ya, Moscow, 1957, 142 pp.

B-322
Head, Lib Sv Sec
Air Info Div
Lib Congress

Rectifiers and Stabilizers, by P. G. Fedoseyev,
533 pp.

RUSSIAN, bk. Vypriamiteli i Stabilizatory, 1960,
pp 1-518. 9689663-7

FTD-TT-63-245

Sci - Elec
Dec 63

243,610

Convex Figures and Polyhedra, by L. A. Lyusternik.

RUSSIAN, bk, Vypuklye Figury i Mnogogranniki.

D.C. Heath Co., Publ.
285 Columbus Ave.
Boston 16, Mass.

Per Memo: NSF
16 Dec 60

Convex Functions and Orlicz Spaces, by M. A.
Krasnosel'skiy, Ya. B. Rutitskiy, 219 pp.

RUSSIAN, bk, Vypuklye Funktsii i Prostranstva
Orlich, 1958.

AEC Tr-4311

Sci - Phys
Jul 61

157, 426

Table of Contents and Extracts From the Book,
Growing Potatoes, by V. S. Leikmovich, 6 pp.

RUSSIAN, bk, Vyrashch Kartoffeliya, Leningrad,
1949, 59 pp.

Sci Tr Center RT-2428

Scientific - ~~Ministry~~ Biology
Dec 55 CTS/DEX

28, 472

S-586/63

Conclusion, by A. R. Luriya (SF-~~XX~~2723)

RUSSIAN, bk, Vyshnye Kortikovy, Funktsii Cheloveka,
Moscow, 1962, pp 395-397.

*JPRS

Sci & Med

Jun 63

S-586/63

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RUSSIAN, bk, Vyshiye Kortikovyve Funktsii Cheloveka,
Moscow, 1962, pp 430-432.

*JPRS

Sci - Med

Jun 63

Economy and High Efficiency for Machines
and Instruments, 11 pp.

RUSSIAN, np, Vyska, 23 Oct 1964, p 2.

UPRS 28982

USSR
Econ
Mar 65

276,272

Int/Bu. of Mines CP-503-67
(TD 21 Mar)

R-8026-D
6 Mar 67

Hydrothermal Synthesis of Fibrous Silicates, by
A. D. Fedoseyev, et al.
RUSSIAN, per, Vysokikh Temperature, Adad. Nauk SSSR,
Inst. Khim Silikatov, 1963, pp 198-2-7

(10 pp.)

The Upper Layers of the Atmosphere, by
I. A. Bravochov, 577 pp.
RUSSIAN, M. Vysokiy Sloi Atmosfery, Leningrad,
1964. 9227473-0
NASA TT P-318

Oct-1964
JAN 65

281,049

High and Ultra-High Pressures in Chemistry,
by M. G. Benikberg.
RUSSIAN, bk, Vysokie i Sverkhvysokie Davleniya
v Khimii, 1958, 56 p.
NLL R. 34822

Sci-Chem
June 66

301,455

High Mountain Forest Soils of Eastern Tibet,
by S. V. Zann, 325 pp.

RUSSIAN, bk, Vysokogornyye Lesnye Pochvy Vos-
tochnogo Tibeta, 1964, pp. 1-236.

JPIS 31529

USSR

Sci-ESNA

Aug 65

285,699

T/C and bk review

High-Refractory Materials and Oxide Product,
by S. G. Tresvyatskiy, A. M. Charepanov, 5 pp.

RUSSIAN, bk, Vysokotempernyye Materialy i
Izdeliya iz Okislov, Moscow, 1957, 246 pp.

B-83

Head, Lib Sv Sec

Air Info Div, Lib Cong

Polymers with a Conjugated Bond System and
Heteroatoms in the Conjugation Chain, The
Synthesis of Polymeric Phthalocyanines
Investigation of their Basic Physicochemical
Properties, by A. A. Berlin, L. G.
Cherkashina, E. I. Balabanov, 16pp.
RUSSIAN, per, Vysokomolekulyarnye Soedin-
eniya, Vol 11, No 13/14, 1941, pp 1081-
1091.
CFSTI TT-64-18404.

322,348

Sci - Chemistry
Mar 67

A Study of the Molecular Structure of
Synthetic Fibers. XIII. Polyenamamide, by
E. Z. Fainberg,

RUSSIAN, par, Vysokomol Soedineniya, Vol I,
No 1, 1959, pp 17-20.

ATS RJ-2117

CTS 61-2117

Sci - Chem

May 60

115,404

Polymerization of Isoprene with a Butyl Lithium
Catalyst, by A. A. Korotkov, N. M. Chesnokova, L. M.
Trukhanova, 11 pp.

RUSSIAN, per, Vysokomol Soedin, Vol 1, No 1, 1959,
pp 46-56.

PP

Sci - Chem

Apr 61

The Interaction Between Tetramethyl Thiuran
Disulphide and Rubber and Compounds Containing
an Active Hydrogen Atom in the Molecule, by D. A.
Dygalkin, V. A. Shernshnev, 13 pp.

RUSSIAN, per. Vysokomol Soedin, Vol 1, No 1, 1959,
pp 53-67.

PP

Sci - Chem

Apr 61

Emulsion Polymerization Under the Influence of
 γ -radiation, by L. P. Moshirova, M. K. Yakovleva,
A. V. Makovayeva, 7 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 1, 1959,
pp 63-71.

PP

Sci - Chem

Apr 61

Synthesis and Mechanical Properties of
Isotactic Polystyrene, by V. A. Kargin,
V. A. Kabenov, I. Yu. Marchenko, 10 pp.

RUSSIAN, per, Vysokomolekulyarnyye
Soyedineniya, Vol. I, No 1, 1959, pp 94-102.

ATB-04M39R

ATC/RJ-2447

188,899

Sci.

Mar 62

Vol IV, No 2

Preparation and Investigation of the Properties
of Graft Copolymers Based on Starch and Styrene,
by V. A. Kargin,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 1.
1959, pp 114-122

ATS RJ-2127

ATS-834-36P

Sci - Chem

May 60

115, 413

The Interaction of Phenyl- β -naphthylamine With
Benzoyl Peroxide and the Effect of α -Benzoyl- β -
Phenyl- β -Naphthylhydroxylamine on the Oxidation
of Rubber, by B. A. Dogadkin, E. N. Belyayeva, 3 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 1, 1959,
pp 123-125.

PP

Sci - Chem

Apr 61

A Study of Macroradicals in Polymerization and
Degradation Processes. Part 1, by S. E. Bresler,

RUSSIAN, per, Vysokomol Soedineniya, Vol. I,
No 1, 1959, pp 132-137.

ATS RJ-2121

Sci - Chem

May 60

*also Polymer Sci. USSR
Pergamon Press edition
115,408*

Indicatrix for the Light Scattering of Polymer
Solutions and Volume Effects, by V. Ye. Yeskin, 7 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol I,
No 1, 1959, pp 138-142.

SLA 60-16649 *also 65-18-15*

Sci

Apr 62

190,255

Vol IV, No 6

Mikhailov, N. V., Fainberg, E. Z., and
Gorbacheva, V. O.

A STUDY OF THE MOLECULAR STRUCTURE OF
STEREOREGULAR POLYMERS. I. ISOTACTIC
POLYPROPYLENE. 9 May 62 [14]p.
Order from OTS or SLA \$1.60 63-10781

Trans. of Vysokomol[ekulyarnye] Soed[ineniya] (USSR)
1959, v. 1, no. 1, p. 143-148.

DESCRIPTORS: *Polyethylene plastics, *Propenes,
Polymers, Physical properties, Chemical properties,
Molecular structure, X-ray diffraction analysis,
Calorimetry, Viscosity, *Plasticizers, *Heptanes.

This paper gives the results of the study of the physico-
chemical properties of isotactic polypropylene on the
basis of X-ray investigations, data of heat capacity and
viscosity of the dilute solutions.
(Materials--Plastics, TT, v. 10, no. 1)

63-10781

I. Mikhailov, N. V.
II. Fainberg, E. Z.
III. Gorbacheva, V. O.
IV. Title: Isotactic...

Office of Technical Services

Formation of Graft Polymers by the Ozonation
of Cellulose, by V. A. Kargin, et al. UNCL

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya,
Vol I, No 1, 1959, pp 149-151.

STS 60-23810
DNIR LRU RES 1487

(7a. 6a.)

Sci - Chem

May 60

116617

62-26490

Yang, Lin, Derevitskaya, V. A. and Rogovin, Z. A.
DEVELOPPEMENT DES PROCÉDES DE SYNTHÈSE
DES ESTERS DE CELLULOSE AVEC LES ACIDES
AMINES N-SUBSTITUÉS (Synthesis of Cellulose Esters
with N-Substituted Amino Acids). 5p. 6 refs.
Order from OTS, ETC or CNRS \$0.80 62-26490

Trans. in French of Vysokomolekulyarnye Soedineniya
(USSR) 1959, v. 1, no. 1, p. 157-161.

DESCRIPTORS: *Cellulose esters, *Amino acids,
Synthesis (Chemistry).

(Chemistry--Organic, TT, v. 10, no. 7)

- I. Yang, Lin.
- II. Derevitskaya, V. A.
- III. Rogovin, Z. A.
- IV. Centre National de la
Recherche Scientifique
(France)

Office of Technical Services

Study of the Molecular Structure of Synthetic
Fibers. XIV. Physicochemical and Physiomechanical
Properties of Polyamides in the Polycaprosimide-
Polyundecanamide Series, by N. V. Mikhailov,

RUSSIAN, per, Vysokomol. Soedineniya, Vol I,
No 2, 1959, pp 185-199.

ATS RJ-2118
ATS-520321

Sci - Chem

May 60

115,405

Investigation of the Anisotropy of Electrical
Conductivity of Polymeric Electrolytes, by V. A.
Kargin, S. Ya. Mirlina, Yu. F. Nagornaya, 13 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 2, 1959,
pp 191-200.

PP

Sci - Chem

Apr 61

Mikhailov, N. V. and Fainberg, E. Z.
STUDIES ON THE MOLECULAR STRUCTURE OF
SYNTHETIC FIBERS. XV. THERMOCHEMICAL
PROPERTIES OF THE POLYAMIDE SERIES: POLY-
CAPRAMIDE TO POLYUNDECANAMIDE. [1961] [8]p.
7 refs.

Order from OTS or SLA \$1.10

61-20637

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. [no. 2] p. 201-207.

DESCRIPTORS: *Synthetic fibers, Materials, *Amides,
Properties, Thermodynamics, Polymers, Heat of
solution, Phase transitions, Methanes, Ethylenes,
Polymers, Molecular structure, Thermochemistry,
Fibers

A comparative study was made of the thermodynamic
properties of the polymers of the polyamide series:
polycapramide to polyundecanamide. On the basis of
(Materials-Textiles, TT, v. 7, no. 5) (over)

61-20637

I. Mikhailov, N. V.
II. Fainberg, E. Z.
III. Title: Thermochemical ...

Office of Technical Services

Heterochain Polyamides. XI. Synthesis and
Study of Polyamides Containing Sulfide and
Sulfone Sulfur in the Chain, by V. V. Korshak,
et al.

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya,
Vol I, 1959, pp 208-214.

ATC/RT-2402
ATS 3741R

Sci - Chem

100-100000-100/38,280
Polymerization, 1959, 1960

Serebryakova, Z. G. and Mikhailov, N. V.
INVESTIGATION OF THE MOLECULAR STRUCTURE
OF SYNTHETIC FIBERS. XVI. INVESTIGATION OF
THE SORPTION PROPERTIES OF POLYAMIDE
FIBERS AS A FUNCTION OF THEIR STRUCTURE.
[1961] 111 p. 20 refs.

Order from OTS or SLA \$1.60

61-20644

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 2, p. 222-229.

DESCRIPTORS: *Synthetic fibers, *Molecular structure, Fibers, Adsorption, Absorption, Amides, Polymers.

It was established that sorption of water vapor by capron fiber is not connected with the magnitude of external and internal surface, but rather with terminal -CONH- groups of the polymer and occurs by a (Physics--Molecular, TT, v. 7, no. 6) (over)

61-20644

- I. Serebryakova, Z. G.
- II. Mikhailov, N. V.
- III. Title: Investigation of the sorption...

Office of Technical Services

The Diffusion Theory of Adhesion, by S. S.
Voyutskiy.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol I, No 2, 1959, pp 230-239.

SLA 61-13470
DSIR LLU RTS 1505

Sci - Phys

Oct 60

128,835

Slonimskiy, G. L. and Yershova, V. A.
ON THE TEMPERATURE DEPENDENCE OF THE
DEFORMATION OF CRYSTALLINE POLYMERS.

Feb 60 [5] p. 15 refs

Order from LC G. SIA ml\$1.84 ph\$1.80 61-10209

Trans. of Vysokomolekulyarnye Soyedinyeniya (USSR)
1959, v. 1, no. 2, p. 240-243.

A study was made of the mechanical properties of
polyhexamethylene adipamide over a wide range of
temperatures. Anomalies were found in the tempera-
ture dependence of the deformability and recrystalli-
zation stress in the interval 180 - 190°C. The anom-
alies are associated with the kinetics of crystalliza-
tion and recrystallization of the polymer. (Author)

(Materials-Textiles, TT, v. 5, no. 4)

61-10209

1. Amide polymers--
Crystallization
2. Polymers--Deformation
1. Slonimskiy, G. L.
- II. Yershova, V. A.

143,205

Office of Technical Services

The Action of Binary Systems of Vulcanization
Accelerators, by B. A. Dogadkin, M. S. Fel'dshtein,
E. W. Belyayeva, 14 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 2, 1959,
pp 254-264.

PP

Sci - Chem

Apr 61

Polymerization in Systems Obtained by the Method of
Molecular Beams, by V. A. Kargin,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 2,
1959, pp 265-268.

ATS RJ-2124

Sci - Chem

May 60

115,410

Kitaygorodskiy, A. I. and Tavankin, D. Ya.
THE STRUCTURE OF CELLULOSE, I-II (K Voprosu
 Struktury Tsellyulozy, I-II). Feb 61 [24]p. 42 refs.
 RTS-1595.

Order from LC or SLA m\$2.70, ph\$4.80 RI-19243

Trans. of Vysokomolekularnyye Soyedineniya (USSR)
 1959, v. 1, no. 2, p. 269-286

One-dimensional diffraction on the X-ray diagrams of
 cellulose fibres was studied. The cause of one-dimen-
 sional diffraction is a statistical dispersion of the
 centres of chains in the equatorial plane (≈ 2) and a
 deviation of chains from their proper course along the
 axis (≈ 2). There are no irregular regions as regards
 the arrangement of the chains and their links in the
 structure of cellulose. The same groups of chains are
 responsible for both one-dimensional diffraction and
 the three-dimensional reflexions.

(Chemistry--Organic, TT, v. 5, no. 12)

I-19243

1. Cellulose--Molecular structure
2. Cellulose--X-ray analysis
- I. Kitaygorodskiy, A. I.
- II. Tavankin, D. Ya
- III. RTS-1595
- IV. Department of Scientific and Industrial Research (Gr. Brit.)

DSIR LLU RTS 1595

10065.

Office of Technical Services

From the Field of Hetero-Chain Polyamides.
XIII. Mixed Polyamides Containing Sulfur
Atoms in the Principal Chain, by T. M. Frunze,
V. V. Korslak, 8 pp.

RUSSIAN, per, Vysokomolekulyarnyye
Soyedineniya, Vol I, 1959, pp 293-300.

ATS-38241R

ATS/ST

Sci

24 Mar 62

The Heterogeneous Polymerization of Sodium
Acrylate in the Presence of Other Salts, by
V. A. Kargin, V. A. Kabanov, G. P. Andrianova,
15 pp.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol I, No 2, 1959, pp 301-307. 9670224

ATTC MCL-849/1

Sci - Chem

Jul 61

161,357

Andreyeva, N. S.

THE RELATIONSHIP BETWEEN THE CONFIGURATION OF FIBROUS PROTEINS AND THEIR CHEMICAL STRUCTURE (O Svyazi Prostranstvennoy Struktury Fibrillyarnykh Belkov s ikh Khimicheskimi Svoystvami). Jan 61 [12]p. 24 refs. RTS 1596. Order from LC or SLA ml\$2.40, ph\$3.30 61-15643

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1959, v. 1, no. 2, p. 308-314.

An analysis has been made of the dependence of the steric structure of the most important fibrous proteins on their chemical structure. Known polypeptide chain configurations of fibrous proteins are divided into two groups: those which are insensitive to the sequence of amino acids along the peptide chains, and those determined by a specific arrangement of amino acid residues. It has been shown that the first group, which includes all α -structures, may also include proteins with a statistical or almost statistical arrangement of (Chemistry--Organic, TT, v. 5, no. 7) (over)

61-15643

- I. Proteins--Analysis
- I. Andreyeva, N. S.
- II. RTS-1596
- III. Department of Scientific and Industrial Research (Gt. Brit.)

148, 761

Office of Technical Services

The Role of Free Radicals in the Low-Temperature Cross
Linking (Vulcanization) of Rubber, by B. A. Dogadkin,
E. N. Belyayeva, 10 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 2, 1959,
pp 315-323.

PP

Sci - Chem

Apr 61

Kozlov, P. V. [Kubanov, V. A., and Prolova, A. A.]
CERTAIN CORRELATIONS IN THE DEVELOPMENT
OF UNIAXIAL DEFORMATION IN CRYSTALLINE
AND VITREOUS FILMS OF POLYETHYLENE
TEREPHTHALATE. [1960] 12p. 11 refs.
Order from LC or SLA ml\$2.40, ph\$3.30 60-18439

Trans. of *Vysokomolekulyarnyye Soyedineniya* (USSR)
1959, v. 1, no. 2, p. [324-329].

Polyethylene terephthalate was used to observe the
uniaxial deformation of film in the glassy condition and
of crystalline films. It was shown that the formation of
the so-called "neck" which can take place in "cold
stretching" of crystalline and in forced-elastic defor-
mation of amorphous polymers is governed not by
phase changes but has a purely relaxation character.
The results obtained can be interpreted on the basis of
the assumption of a "packet" structure of the crystal-
line and the amorphous polymers developed by Kargin,
Kitaigorodskii and Sionimskii (*Kolloid. Zhur.* 19: 131,
1957) (Author)

60-18439

1. Ethylene polymers--
Crystal structure
I. Kozlov, P. V.
II. Kubanov, V. A.
III. Prolova, A. A.

143,034

Office of Technical Services

(Chemistry--Organic, TT,
v. 5, no. 3)

Chemical Grafting on Crystalline Surfaces, by V. A.
Kargin, N. A. Plate,

RUSSIAN, per, Vysokomol. Soedineniya, Vol I, No 2,
1959, pp 330-331.

ATS RJ-2128

Sci - Chem

May 60

115,414

Hetero-Chain Polyesters. XVII. Polyesters of
Phosphorus-Containing Dicarboxylic Acids, by
S. V. Vinogradova,

RUSSIAN, per Vysokomol Soedineniya, Vol I, No 3,
1959, pp 357-361.

ATS RJ-2134

ATS-33L37R

Sci - Chem

May 60
y

115420
Also in
U.S. Patent
Pergamon Press

Kolesnikov, G. S. and Klimentova, N. V.
CARBON CHAIN POLYMERS AND COPOLYMERS. X.
BLOCK POLYMERIZATION OF METHYLMETHACRY-
LATE IN THE PRESENCE OF TRIBUTYLBORON.
May 61 [12]p. 3 refs. Technical notes FRL-TN-48;
AD-256 286.

Order from OTS or SLA \$1.60

61-19779

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 3, p. 362-366.

DESCRIPTORS: *Polymers, Synthesis, Molecular struc-
ture, *Acrylic resins, Polymerization, Methyl radicals.

The kinetics of block polymerization of methylmethacry-
late in the presence of tributylboron was studied, and
the effect of temperature and catalyst concentration on
the polymerization rate and on the molecular weight of
polymethylmethacrylate elucidated. (Author)

(Chemistry--Organic, TT, v. 6, no. 6)

61-19779

- I. Kolesnikov, G. S.
- II. Klimentova, N. V.
- III. Title: Block ...
- IV. FRL TN-48
- V. Feltman Research Labs.,
Picatinny Arsenal,
Dover, N. J.
- VI. Joint Publications Research
Service, New York
- VII. AD-256 286

176626

Office of Technical Services

Rafikov, S. R., Pavlova, S. A., and
Tverdokhlebova, L. L.
RELATIONSHIP BETWEEN THE PROPERTIES OF
SOLUTION AND POLYMER STRUCTURE. II. THE
APPLICATION OF PRECISION EBULLIOSCOPY IN
MOLECULAR WEIGHT DETERMINATIONS OF
POLYALUMOORGANOSILOXANES, tr. by I. Gawronska.
Oct 60, 6p. 10 refs. Courtaulds Misc. Lit. 3231;
[DSIR LLU] M. 2675.
Order from OTS or SLA \$1.10 61-23519

Trans. of Vysokomol[ekulyarnye] Soedineniya (USSR)
1959, v. 1, no. 3, p. 400-403.

DESCRIPTORS: *Polymers, *Aluminum compounds,
*Organic compounds, *Silicones, Molecular weight,
Determination.

A highly sensitive ebulliometer is described in which
(Chemistry--Organic, TT, v. 6, no. 10) (over)

61-23519

- I. Rafikov, S. R.
- II. Pavlova, S. A.
- III. Tverdokhlebova, L. L.
- IV. Title: Application ...
- V. Courtaulds ML-3231
- VI. DSIR LLU M. 2675
- VII. Courtaulds Ltd.
(Gt. Brit.)

Office of Technical Services

Kolesnikov, G. S., Rodionova, E. F., and Fedorova, L. S.

CARBON-CHAIN POLYMERS AND COPOLYMERS.
XI. SYNTHESIS, POLYMERIZATION AND COPOLYMERIZATION OF ESTERS OF VINYLPHOSPHONIC ACID. [1961] 6p.

Order from ATS \$11.65

ATS-57N56R

Trans. of Vysokomolekularnye Soedineniya (USSR)
1959, v. 1, no. 3, p. 367-372.

Another trans. is available from OTS or SLA \$1.60 as
61-18631 [1961] 12p.

DESCRIPTORS: *Polymers, Synthesis, Molecular structure, Polymerization, *Phosphonic acids, Copolymerization, Esters, *Vinyl radicals (Phosphonic).

(Chemistry--Organic, TT, v. 7, no. 3)

62-12157

I. Kolesnikov, G. S.

II. Rodionova, E. F.

III. Fedorova, L. S.

IV. ATS-57N56R

V. Associated Technical
Services, Inc., East
Orange, N. J.

ATS-RJ-3072

Office of Technical Services

Chemical Conversion of Polymers-II. Polyoxymethylene
of Polyamides, by S. R. Rafikov, G. H. Chelnov
P. N. Gribkova, 11 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 3 1959
pp 378-386.

PP

Sci - Chem

Apr 61

177 818287

63-10836

Mikhailov, N. V., Tokareva, L. G., and Fainberg, E. Z.

ON THE COMPATIBILITY AND MECHANISM OF STABILIZATION OF FIBER-FORMING POLYMER MIXTURES 2 Nov 62 [14]p. 10 refs.

Order from OTS or SLA \$1.60

63-10836

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1959, v. 1, no. 3, p. 404-409.

DESCRIPTORS: *Polymers, *Plastics, Fibers (Synthetic), Compatibility, Stabilization, Chemical bonds, Acetyl radicals, Cellulose compounds, *Vinyl chlorides, Nitrocellulose, Chlorination, Heat of solution.

The compatibility of the polymers diacetyl cellulose-chlorinated polyvinyl chloride and nitrocellulose-chlorinated polyvinyl chloride was investigated. The (Materials--Plastics, TT, v. 9, no. 12) (over)

I. Mikhailov, N. V.
II. Tokareva, L. G.
III. Fainberg, E. Z.

Office of Technical Services

Polymer on the Basis of Bicyclo-2,2,1-Heptadiene, by
V. A. Kargin, N. A. Plate, L. A. Dudnik, 6 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 3, 1959,
pp 420-424.

PP

Sci - Chem

Apr 61

The Synthesis and Investigation of Hybrid Polymers.
I. Styrene and Isoprene Block Polymers Formed by
Catalytic Polymerization in Solution Under the
Action of Butyl Lithium, by A. A. Korotkov, L. A.
Shibayev, L. M. Pyrkov, 4 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 3, 1959,
pp 443-453.

PP

Sci - Chem

Apr 61

Polymerization of Glycidyl Methacrylate,
by I.A. Arbuzova, V.N. Efremova, 6pp.
RUSSIAN, per, Vysokomolekulyarnye Soedin,
Vol 1, No 3, 1959, pp 455-459.
CFSTI ATS-11R78R.

322,316

Sci - Chemistry
Mar 67

TT-63-23369

Gottlieb, Yu. Ya.

INFRA-RED DICHOISM AND THE STRUCTURE OF
STEREOSPECIFIC POLYMERS. [1963] 10p 14refs

[BNSL] T. 1451 [DSIR] NLL M. 10106.

Order from OTS, SLA, or ETC \$1.10 TT-63-23369

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 3, p. 474-481. (Abstract available)DESCRIPTOR: *Block polymers, *Molecular isomerism,
Stereochemistry, Methyl radicals, Infrared spectro-
scopy, *Dichroism, Molecular structure,

Comparison of the dichroic ratios for the bands of
certain characteristic vibrations of the CH_2 and CHR
groups in stereospecific polymers of the type $(-\text{CH}_2-\text{CHR}-)_n$
enables definite conclusions to be drawn about
the type of stereoregularity. Simple results were ob-
tained by neglecting the coupling between the vibrations.
(Chemistry--Physical, TT, v. 11, no. 7) (over)

I. Gottlieb, Yu. Ya.

II. BNSL T-1451

III. DSIR NLL M. 1016

IV. British Nylon Spinners Ltd.
London

NLL R-5828.4
1962 (1016) (over)

Office of Technical Services

62-12118

Kochkin, D. A., Kotrelev, V. N. and others.

ORGANOTIN POLYMERS. [1961] 4p.

Order from ATS \$4.00

ATS-56N56R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 3, p. 482-484.DESCRIPTORS: *Polymers, *Metalorganic compounds,
*Tin compounds.

(Chemistry--Organic, TT, v. 7, no. 4)

- I. Kochkin, D. A.
- II. Kotrelev, V. N.
- III. ATS-56N56R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS-RT-3088

Office of Technical Services

Investigation of the Dielectric Losses in Poly(Methyl Acrylate) and Poly(Vinyl Acetate), by L. V. Krasner, and G. P. Mikhailov, 7 p.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol I, No 4, 1959, pp 542-548.

ATS-48T90R

Sci-Chem
Jul 68

303,703

Investigation of the Dielectric losses in Poly
(Methyl Acrylate) and Poly(Vinyl Acetate) by
L. V. Krasner, G. P. Mikhailov.
RUSSIAN, per, Vysokomolekul Soedin.
Vol 1, No 4, 1959, pp 542-548.
ATS-4902

Sci
Dec 68

358,768

Carbochain Polymers and Copolymers, XIV,
Copolymerization of Ethylene with Unsaturated
Compounds in the Presence of Alkyl Boron Compounds,
by H. S. Kolesnikov, A. P. Suprun, T. A. Soboleva,
8 p.

RUSSIAN, per, ⁵⁹Vysokomolek Soyedineniya, 1979,
Vol I, No 4, pp 627-634.

BIA 60-10042

Sci
Apr 60
Vol III, No 3

112,086

Organophosphorus Polymers. VI. Polyamides of Some
Phosphorus-Containing Dicarboxylic Acids, by I. M.
Frunze,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 5,
1959, pp 670-676.

ATS RJ-2133

Sci - Chem

May 60

115,419

Organophosphorus Polymers. VII. Mixed Phosphorus-
Containing Polyamides, by T. M. Trunze,

RUSSIAN, per: Vysokomol Soedineniya, Vol I,
No 5, 1959, pp 677-681.

ATS RJ-2135

Sci - Chem

May 60

115,421

TT-64-13710

Sharkov, B. I. and Levanova, V. P.
A STUDY OF THE PACKING DENSITY OF COTTON
CELLULOSE PREPARATIONS. [1963] 11p 3refs
Order from OTS, SLA, or ETC \$1.60 TT-64-13710

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 5, p. 730-737.

DESCRIPTORS: *Cellulose, Preparation, *Density,
Molecular structure, *Cellulosic plastics, *Rayon
fibers.

(Materials: Textiles, TT, v. 11, no. 9)

I. Sharkov, B. I.
II. Levanova, V. P.

Office of Technical Services

Mechanical Breakage of Fibres, by A. V. Orlova.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol 1, No 5, 1959, pp 740-742.

GB/256/T.1044

Sci-Misc *Eng r*
Mar 63

225,291

Korstylev, B. N. and Kozlov, P. V.
INVESTIGATION OF RELAXATION PROCESSES IN
CELLULOSE ESTER FILMS. 2 Nov 62 [14]p. 8 refs.
Order from OTS or SLA \$1.60 63-10840

Trans. of Vysokomol[ekulyarnye] Soed[ineniya] (USSR)
1959, v. 1, no. 6, p. 793-798.

DESCRIPTORS: *Cellulose esters, *Films, Surface
properties, Relaxation time.

As a result of a short thermal treatment of thin tri-
acetate films at high temperature, a significant im-
provement in their mechanical properties was found.
This treatment is connected with relaxation processes
occurring in the films which lead to a decrease in
internal stresses and to an increase in the packing
density of the molecular chains of the film-forming
substance. (Author)
(Materials--Plastics, TT, v. 9, no. 12)

63-10840

62-26507 J

I. Korstylev, B. N.

II. Kozlov, P. V.

REVERSE
TRANS
+
FRENCH

Office of Technical Services

Heterochain Polyamides. XII. The Relationship
Between Melting Point and Structure in Homologous
Series of Heterochain Polymers, by T. N. Frunze,
et al, 11 pp.

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya,
Vol I, 1959, pp 809-818.

Sci - Chem

Feb 61

ATS 3541R

ATS/RJ-100

138, 275

Korshak, V. V., Gribova, I. A., and Andreeva, M. A.

A STUDY ON ORGANOPHOSPHORUS POLYMERS. VIII. POLYESTERS OF PHOSPHONIC ACIDS AND CERTAIN AROMATIC DIOXYCOMPOUNDS. [1961]

6p. 6 refs.

Order from OTS or SLA \$1.10

62-10105

Trans. of [Vysokomolekulyarnye Soedineniya] (USSR) 1959, v. 1, no. 6 [p. 825-828].

DESCRIPTORS: *Organic compounds, *Phosphorus compounds, *Polymers, Esters, Phosphonic acids, Acids, Quinones, Resorcinol, Propanes, Phenyl radicals, Phenoxy radicals, Synthesis, Molecular structure, Physical properties

Polyesters of methylphosphonic, phenylphosphonic and phenoxyphosphonic acid and aromatic dioxycompounds: (Chemistry--Organic, TT, v. 7, no. 9) (over)

62-10105

- I. Korshak, V. V.
- II. Gribova, I. A.
- III. Andreeva, M. A.
- IV. Title: Polyesters...

Office of Technical Services

Birahteyn, T. M. and Pitsayn, O. B.
ON THE RELATIONSHIP BETWEEN THE STEREO-
SPECIFICITY IN POLYMERS AND THE CONDITIONS
OF POLYMERIZATION. [1960] 6p. 38 refs.
Order from LC or SLA mi\$1.80, ph\$1.80 61-10359

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1 [no. 6] p. 848-851.

146,921

(Chemistry--Organic, TT, v. 5, no. 5)

61-10359

1. Polymers--Molecular structure
 2. Polymerization
 3. Stereochemistry
 4. Title: Stereospecificity
- I. Birahteyn, T. M.
 - II. Pitsayn, O. B.

Office of Technical Services

Boldreva, I. I., Dolgoplosk, B. A., and Krol, V. A.
REACTIONS OF ORGANOMETAL COMPOUNDS WITH
SALTS OF HEAVY METALS. III. REACTIONS OF
ORGANOALUMINUM COMPOUNDS WITH TITANIUM
HALIDES. 1 Nov 62, 13p. 12 refs.
Order from OTS or SLA \$1.60

63-10835

Trans. of Vysokomol[ekulyarnye] Soed[ineniya] (USSR)
1959, v. 1, no. 6, p. 900-906.
Another trans. is available from OTS \$1.60 as
AD-273 126, Mar 62, 12p.

DESCRIPTORS: Synthesis, *Catalysts, Metalorganic
compounds, *Aluminum compounds, *Ethyl radicals,
*Titanium compounds, *Halides, *Complex compounds,
Catalysis, Polymerization, Stereochemistry, Molecular
isomerism.

A study was made of the products of the interaction of
the catalyst components used for producing stereo-
(Chemistry--Organic, TT, v. 9, no. 11) (over)

63-10835

- I. Boldreva, I. I.
- II. Dolgoplosk, B. A.
- III. Krol, V. A.
- IV. Title: Reactions...

Office of Technical Service

Kargin, V. A., Gorina, A. A., and Koretskaya, T. A.
AN ELECTRON-MICROSCOPIC STUDY OF THE
MECHANISM OF THE SINTERING OF POLYTETRA-
FLUOROETHYLENE (FTOROPLAST-4). [1961] 7p.
Order from ATS \$10.40 ATS-74N53R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 8, p. 1143-1147.

DESCRIPTORS: *Ethylenes, *Fluorides, Polymers,
Sintering, Optical analysis, *Electron microscopy.

(Chemistry--Organic, TT. v. 6, no. 8)

61-25333

1. Title: Ftoroplast-4
- I. Kargin, V. A.
- II. Gorina, A. A.
- III. Koretskaya, T. A.
- IV. ATS-74N53R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATC/KT-3006

205229

Office of Technical Services

Electron Paramagnetic Resonance Study of Radicals Formed
in Irradiation of Polyethylene With Fast Electrons,
by A. T. Koritskiy,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 8,
1959, pp 1182-1193.

ATB RJ-2120

AEC D-4409

Sci - Chem

May 60

115,407

Selikhova, V. I., Markova, G. S., and Kargin, V. A.
A COMPARATIVE INVESTIGATION OF HIGHLY
ORIENTATED CRYSTALLINE AND AMORPHOUS
POLYMERS. [1963] [13p] 19refs [BNSL] T. 1561;
[DSIR] NLL-M. 10489.

Order from OTS, SLA, or ETC \$1.60 TT-64-15263

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 8, p. 1214-1226.

(Physics--Solid State, TT, v. 12, no. 2)

TT-64-15263

- I. Selikhova, V. I.
- II. Markova, G. S.
- III. Kargin, V. A.
- IV. BNSL-T-1561
- V. DSIR-NLL-M. 10489
- VI. British Nylon Spinners
Ltd., London (England)

Office of Technical Services

61-12617

Spirin, Yu. L., Gantmakher, A. R., and
Medvedev, S. S.

THE MECHANISM OF POLYMERIZATION IN THE
PRESENCE OF ORGANIC ALKALINE METAL COM-
POUNDS (O Mekhanizme Polimerizatsii Prisutstvi
Organicheskikh Soyedinenii Shchelochnykh Metallov)
tr. by G. Beikov. 1960, 15p. 15 refs. Technical
trans. 911.

Order from NRCC \$1.00

NRCC C-3481

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 8, p. 1228-1232

Another translation is available from ATS \$12.95 as
ATS-60M41R [1960] 8p.

151484

(Chemistry--Organic, TT, v. 5, no. 8)

1. Polymerization--
Stimulation
2. Organic compounds--
Catalytic properties
3. Alkali metals--Catalytic
properties

- I. Spirin, Yu. L.
- II. Gantmakher, A. R.
- III. Medvedev, S. S.
- IV. NRCC TT-911
- V. NRCC C-3481
- VI. National Research
Council of Canada

ATS-RJ-2655

Office of Technical Services

60-18428

Kolesnikov, G. S. and [Fedorova, L. S.].
CARBOCHAIN POLYMERS AND COPOLYMERS. XII.
EMULSION POLYMERIZATION OF VINYL COM-
POUNDS IN THE PRESENCE OF TRIBUTYLBORON.
[1960] 8p. 6 refs.
Order from SLA ml\$1.80, ph\$1.80 60-18428

Trans. of [Vysokomolekulyarnyye Soedineniya] (USSR)
1959, v. 1 [no. 8] p. 1266-1269.

It was shown that the polymerization of acrylonitrile in emulsion and with the use of tributylboron as a catalyst takes place only in the presence of oxygen or an oxygen donor, for example hydrogen peroxide. Methylmethacrylate and styrene polymerize in the absence of oxygen with diminished yields below those in the presence of oxygen. The formation of compounds of a peroxide nature was shown qualitatively in emulsion polymerization of acrylonitrile in the presence of tributylboron and oxygen of the air and assumptions were made concerning their structure. A study was made of (Chemistry--Organic, TT, v. 5, no. 3) (over)

1. Boron compounds (Organic)--
Chemical reactions
2. Vinyl polymers--Synthesis
1. Kolesnikov, G. S.
- II. Fedorova, L. S.
- III. Title: Emulsion...

143,040

Office of Technical Services

61-15921

Golova, O. P., Krylova, R. G., and Nikolayeva, I. I.
 MECHANISM OF THE THERMAL DECOMPOSITION
 OF CELLULOSE IN A VACUUM. I. COMPARATIVE
 STUDY OF THE THERMAL DECOMPOSITION OF
 COTTON CELLULOSE AND CELLULOSE HYDRATE
 (O Mekhanizme Termicheskogo Raspada Tsellyulozy v
 Vakuume. I. Sravnitel'noye Izucheniye Termi-
 cheskogo Raspada Klopkovoy i Gidrattsellyulozy).
 Feb 61 [14] p. 18 refs. RTS 1650.
 Order from LC or SLA ml\$2.40, ph\$3.30 61-15921

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
 1959, v. 1, no. 9, p. 1295-1304.

A study was made of the products of thermal decom-
 position, obtained at different stages of thermal action
 on cotton cellulose in a vacuum. Two stages were
 defined in the thermal decomposition of cotton cellu-
 lose; the first stage covers the decomposition of the
 first 10 - 20%, and the second stage includes that of
 the following 70 to 80% of the specimen. A study was
 (Chemistry--Organic, TT, v. 5, no. 8) (over)

- I. Cellulose--Decomposition
- I. Golova, O. P.
- II. Krylova, R. G.
- III. Nikolayeva, I. I.
- IV. Title: Comparative...
- V. RTS-1650
- VI. Department of Scientific
 and Industrial Research
 (Ot. Brit.)

151693

Office of Technical Services

Korotkov, A. A., Mitaengendler, S. P. and others.
SYNTHESIS OF POLYMETHYL METHACRYLATE
WITH REGULAR MICROSTRUCTURE. [1960] 8p.
Order from ATS \$11.00 ATS-70N48R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 9, p. 1319-1326.

151524

(Chemistry-Organic, TT, v. 5, no. 8)

61-12768

- I. Methyl acrylate--Synthesis
- I. Korotkov, A. A.
- II. Mitaengendler, S. P.
- III. ATS-70N48R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Molecular Ordering of Polymers Precipitated
from Solution, by L. A. Igonin.
RUSSIAN, per, Vysokomolekul Soedin, Vol 1,
No 9, 1959, pp 1327-1332.
ATS RJ-4957

Sci-Mat
Feb 69

373,774

Molecular Orientation of Polymers Precipitated
From Solutions, by I. A. Igomin, et al.

RUSSIAN, per, Vysokomol Soedin, Vol 1,
No 9, 1959, pp 1327-1332

CSIRO

Sci - Chem
Oct 61

171, 387

Polymers With Conjugated Bonds in the Macromolecular
Chains. Part 2. Paramagnetism and Some Other Properties
of Polyvinylbenzenes, by A. A. Berlin,

RUSSIAN, per, Vysokomol Soedineniya, Vol 1, No 9,
1959, pp 1361-1363.

ATS RJ-2125

NLL RTS 1764

Sci - Chem

May 60

115, 411

Preparation of Graft Copolymers III.
E Grafting of Vinyl Monomers to Polyamides,
by V. V. Morshak, K. K. Mozgova, M. A. Sakolina,
6 pp.

RUSSEAN, per, Vysokomolek Soyed, Vol I, No 2,
1959, pp 1360-1368. 9092918

MDP K-208

Sci
Nov 61

173, 472

A Study of the Polymerization of Styrene Molecular on Ziegler-Type Catalyst by the Method of Molecular Beams, by V. A. Kabanov, V. P. Zubov, et al.

RUSSIAN, per, ~~Vysokomolekulyarnyye Soed.~~
Vol I, No 9, 1959, pp 1422-1427.

ATS-79M41R ATS-RJ-2652

Sci
Vol IV, No 11
Jun 62

199, 238

The Light Aging of Polymethyl Methacrylate
I. Kinetics of Gas Evolution as Affected
by Light of Varying Wavelength, the Quantum
Yield of Photodegradation, by M. I. Frolova,
A. V. Ryabov.

RUSSIAN, per, Vysokomolekulyarnyye
Soyezhdeniya, Vol I, No 10, 1959,
pp 1453-1455.

ATS-RJ-2681
ATB-531#3R

187, 132

Sci
Vol IV, No 9
Mar 62

Sorokin, M. P. and Shole, L. G.
 GLYCID Ethers POLYMERS. I. POLYMERISATION
 OF PHENYL GLYCID ETHER UNDER THE ACTION
 OF ALKALINE CATALYSTS AND INITIATING
 AGENTS (Polimery Glitoydnykh Yeffirov. I. Polimeri-
 zatsiya Protogo Fenilglitsidnogo Yeffira pod Delatvi-
 yem Shchelochnykh Katalizatorov i Initaliruyushchikh
 Dabavok). [1960] 9p. 12 refs. M. 220x.
 Order from LC or SLA m\$1.80, ph\$1.80 61-13701

Trans. of Vsesoyuznaya Akademiya Nauk (USSR)
 1959, v. 1, no. 10, p. 1487-1492.

A new method is proposed for the formation of phenyl-
 glycid ether polymers. Use is made of alkaline cata-
 lysts (KOH, C_2H_5ONa , NaOH) and additions of initiat-
 ing substances capable of rupture of the a-oxy ring.
 The polymerization rate is dependent upon the type and
 quantity of catalyst and upon the amount of initiator, as
 well as upon the reaction temperature. A number of
 polymers was isolated, split into fractions and analyzed
 (Chemistry--Organic, TT, v. 5, no. 2) (over)

61-13701

- I. Ethers--Polymerization
- I. Sorokin, M. P.
- II. Shole, L. G.
- III. Title: Polymerization
- IV. DSIR LLU M. 220x

142,952

Office of Technical Services

Kolesnikov, G. S., Davydova, S. L., and
Yermolayeva, T. I.

CARBOCYAN POLYMERS AND COPOLYMERS. XVII.
POLYMERIZATION OF DIALLYL DERIVATIVES OF
SILICON AND GERMANIUM (Karbotsenyye Polimery
i Sopolimery. XVII. Polimerizatsiya Diallilnykh
Proyzyvodykh Kremniya i Germaniya). [1960] 4p.
8 refs. M. 2207.

Order from LC or SLA ml\$1.80, ph\$1.80 61-13702

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 10, p. 1493-1495.

Diallyl derivatives of silicon and germanium in pres-
ence of triethylaluminum and titanium tetrachloride
yield low molecular weight polymers. A structure is
proposed for the products obtained.

(Chemistry--Organic, TT, v. 5, no. 2)

61-13702

1. CARBOCYAN POLYMERS
Polymerization
2. Silicon compounds
(Organic)--Polymerization
3. Germanium compounds
(Organic)--Polymerization
- I. Kolesnikov, G. S.
- II. Davydova, S. L.
- III. Yermolayeva, T. I.
- IV. Title: Polymerization...
- V. DSIR LLU M. 2207

Office of Technical Services

Kochkin, D. A., Kotrelev, V. N. and others.
ORGANOTIN MONOMERS AND POLYMERS
(Olovoorganicheskiye Monomery i Polimery). [1960]
11p. 6 refs. M. 2210.
Order from LC or SLA ml\$2.40, ph\$3.30 61-13705
Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 10, p. 1507-1513.

61-13705

1. Tin compounds (Organic)--
Polymerization
2. Copolymerization
- I. Kochkin, D. A.
- II. Kotrelev, V. N.
- III. DSIR LLU M. 2210

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 2)

61-13703

Stavitskiy, I. K. and Borisov, S. N.
HYDROLYSIS OF DIMETHYLDICHLOROSILANE BY
SODIUM ALUMINATE SOLUTIONS (Gidroliz
Dimetildikhlorsilana Rastvorami Alyuminata Natriya).
[1960] 9p. 16 refs. M. 2208.
Order from LC or SLA ml\$1.80, ph\$1.80 61-13703

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 10, p. 1496-1501.

Experiments showed that in a strongly alkaline medium
the hydrolysis of dimethyldichlorosilane by aqueous
sodium aluminate solutions is accompanied by the
formation of polydimethylalumasiloxane polymers.
Their consistency depends upon the Si:Al ratios. Low
molecular weight pseudo-rubber unstable polymers
are formed on alkaline polymerization of oily poly-
dimethylalumasiloxanes. They do not possess the
properties of organosilicon elastomers.

(Chemistry--Physical, TT, v. 5, no. 2)

1. Silicon compounds
(Organic)--Hydrolysis
2. Sodium aluminates--
Chemical reactions
- I. Stavitskiy, I. K.
- II. Borisov, S. N.
- III. DSIR LLU M. 2208

Office of Technical Services

141, 184

Polymerisation and Copolymerisation of Fluorinated
Styrenes, by A. R. Gantmakher, Yu. L. Spirin, 3 pp.

RUSSIAN, per, В Высokomolekularnyye Soyedineniya,
Vol I, No 10, 1959, pp 1526-1530.

OTS 61-13703

Sci

Sep 62

Bessonov, M. I. and Kuvshishinskiy, Ye. V.
CERTAIN FEATURES OF THE DESTRUCTION OF
ANNEALED POLYSTYRENE (O Nekotorykh
Ozobennostyakh Razrusheniya Zakalennogo Polistirola).
[1960] 7p. 6 refs. M. 2219.
Order from LC or SLA ml\$1.80, ph\$1.80 61-13714

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 10, p. 1561-1565.

Experiments showed that annealed specimens of
polystyrene fracture along large internal crevices.
The material filling the crevice remains on the frac-
ture surface, and can be removed in the form of a
thin film. The properties are explained by the packet
structure of the linear block polymers.

141, 161

(Chemistry--Organic, TT, v. 5, no. 2)

61-13714

1. Styrene polymers--
Decomposition
- I. Bessonov, M. I.
- II. Kuvshishinskiy, Ye. V.
- III. DSIR LLU M. 2219

Office of Technical Services

Tsvetkov, Yu. D., Tsvetdev, Ya. S., and
 STUDIES OF FREE RADICAL REACTIONS IN IRRADIATED POLYTETRAFLUOROETHYLENE. I. THE APPLICATION OF THE ELECTRON PARAMAGNETIC RESONANCE METHOD FOR THE INVESTIGATION OF THE CONVERSION OF RADICALS AND THE DETERMINATION OF THE OXYGEN DIFFUSION COEFFICIENT IN POLYTETRAFLUOROETHYLENE
 (Izucheniye Reaktsii Svoystvennykh Radikalov v Polichennom Politetrafluoretilene. I. Primeneniye Metoda Elektro-magnitnogo Paramagnitnogo Rezonansa dlya Issledovaniya Prevrascheniya Radikalov i Opredeleniye Koeffitsiyenta Diffuzii Kisloroda v Politetrafluoretilene) [Dokl. Akad. Nauk SSSR, 1960, 137: 10, 1519-1525, 15p. M. 2212.]
 Order from LC or SLA mt\$2.40, ph\$3.30 61-13707

Trans. of Vysokomolekulyarnyye Soedineniya (USSR) 1959, v. 1, no. 10, pp. 1519-1525
 Another translation is available from LC or SLA mt\$1.80, ph\$1.80, as 60-16511 [1960] 10p.
 (Chemistry--Physics, TT, v. 5, no. 2)

61-1607

1. Free radicals in chemical reactions
2. Fluoroethylene polymers
3. Effects of radiation
4. Magnetic resonance
5. Applications
6. Other authors
7. Tsvetkov, Yu. D.
8. Tsvetdev, Ya. S.
9. Yuzvovskiy, V. V.
10. DME 13707 M 2212

142,868

5-A 60-16511
 Office of Technical Services

CEA-tr-R-1354 Uncl. (Card 2)

Yu. (Ju.) D. Tsvetkov, Ya. (Ja.) S. Lebedev,
and V. Voevodskii (Voevodskij). Translated
into French from Vysokomolekulyarnye
Soedineniya, 1: 1519-25(1959). 23p. 9082385

Chemistry; Radiation Effects; Translations
MC-4

C-4 NP NSA Dep.(mc); \$2.60(fs), \$0.29(mf)
JCL or LC

N-8

61-13708

Gantmakher, A. R., Spirin, Yu. L., and
Medvedev, S. S.
POLYMERISATION AND COPOLYMERISATION OF
FLUORINATED STYRENES (Rizichnaya i
Sozmesnaya Polimerizatsiya Fluorirovannykh Stirolov).
[1960] 8p. 5 refs. M. 2213.
Order from LC or SLA mi\$1.80, ph\$1.80 61-13708

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 10, p. 1526-1530.

142,777

1. Fluorine compounds
(Organic)--Polymerization
2. Styrenes--Polymerization
3. Copolymerization
- I. Gantmakher, A. R.
- II. Spirin, Yu. L.
- III. Medvedev, S. S.
- IV. DSIR LLU M. 2213

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 2)

Gantmakher, A. R., Spirin, Yu. L., and
Medvedev, S. S.
POLYMERISATION AND COPOLYMERISATION OF
FLUORINATED STYRENES (Razdelnaya i
Sovmestnaya Polimerizatsiya Florirovannykh Stirolov).
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(Chemistry--Organic, ITT, v. 5, no. 2)

Some Properties of Starch-Methyl Methacrylate Graft Copolymers, by V. A. Kargin, R. A. Plats, E. P. Rebinder.

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya.
Vol I, No 10, 1959, pp 1547-1551.

ATS-52443R
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Sci
Vol 4, No 10

May 62

61-10983

- I. Propenes--Decomposition
- I. Moseyev, V. D.
- II. Neyman, M. B.
- III. Kryukova, A. I.

Moyseyev, V. D., Neyman, M. B., and Kryukova,
A. I.

THERMAL DEGRADATION OF POLYPROPENE
[Termicheskaya Destruktsiya Polipropilena]. [1961]
8p. (5 figs. omitted) 8 refs.
Order from LC or SLA ml51.80, ph51.80 61-10983

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1 [no. 10] p. 1552-1557.
Another translation is available from LC or SLA as
61-13712, DSIR LLU M. 2217 [1960] 10p.

For abstract see Technical Translations 5: 114, 1561.

15889.

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 11)

A suspended level Ubbelohde type viscometer is
described that is suitable for determinations with
small amounts of substance.

61-13716

Usmanov, Kh. U., Aykhodzhaev, B. I., and
Azizov, U. O.
PREPARATION OF GRAFT COPOLYMERS OF
CELLULOSE BY IRRADIATION WITH Co-60
(Polucheniye Privyichki Supplimerov Tsellyulosa
Oblucheniym Co-60). [1960] 3p. M. 2221.
Order from LC or SLA mi\$1.80, ph\$1.80 61-13716

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 10, p. 1570.
Another translation is available from LC or SLA
mi\$1.80, ph\$1.80 as 60-18467 [1960] 3p.

- I. Cellulose--Polymerization
- I. Usmanov, Kh. U.
- II. Aykhodzhaev, B. I.
- III. Azizov, U. O.
- IV. OSIR LLU M. 2221

141, 18

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 2)

Korshak, V. V., Mosgova, K. K., and Shkolina, M. A.
PREPARATION OF GRAFT COPOLYMERS. IV.
GRAFTING OF STYRENE TO POLYAMIDES. [1961]
[8]p. 3 refs.
Order from OTS or SLA \$1.10 61-20636

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1 [no. 11] p. 1573-1579.

DESCRIPTORS: Polymers, *Amides, Polymerization,
*Copolymerization, *Styrenes, Physical properties,
Chemical properties.

Graft polymers were obtained from ozone-treated poly-
caprolactam and mixed polyamide Anide G-669, and
styrene. Several physical and physico-chemical prop-
erties of graft polymers were studied. These differ
noticeably from the properties of the initial polyamides.
(Engineering-Chemical, TT, v. 7, no. 7) (over)

61-20636

I. Korshak, V. V.
II. Mosgova, K. K.
III. Shkolina, M. A.
IV. Title: Grafting ...

Office of Technical Services

Korshak, V. V., Zamyatina, V. A., and
Bekasova, N. I.
HETEROCHAIN POLYESTERS. XXV. INVESTIGA-
TION OF POLYCONDENSATION IN A THIN LAYER.
[1963] 8p. (figs. tables omitted) 6 refs.
Order from OTS or SLA \$1.10

63-18263

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 11, p. 1586-1592

DESCRIPTORS: *Polyester plastics, *Phthalates,
*Condensation reactions, Thin films, Reaction
kinetics, Catalysis, Heat of activation, *Ethylenes,
Glycols, Evaporation, Heat transfer.

Polycondensation of polyethyleneterephthalate in a thin
layer at atmospheric pressure was investigated. An
inverse dependence of the reaction speed on the thick-
ness of the layer of reacting substance was established.
(Materials--Plastics, TT, v. 10, no. 11) (over)

63-18263

- I. Title: Polyethylene
terephthalate
- I. Korshak, V. V.
- II. Zamyatina, V. A.
- III. Bekasova, N. I.
- IV. Title: Investigation ...

Office of Technical Services

Degradation of Polyacrylonitrile by the Action
of an Ultrasonic Field, by B. R. Geller,
G. V. Goryachko, 7 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya,
Vol 1, No 11, 1979, pp 1610-1618.

ATS-60443R

ATS/RS-11468

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